

**IN THE CLAIMS**

1. (currently amended) A transmission power control method that compares error rate of receive data and target error rate on a receiving side, controls target SIR, and causes a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR, comprising the steps of:

determining whether an interval is an interval in which data is being transmitted  
channel data is included in the receive data;

comparing the error rate of receive data after decoding and the target error rate of the data and controlling the target SIR by a result of the comparing in an  
the interval in which channel data is being transmitted  
included in the receive data;

measuring the error rate of a demodulated receive pilot in an interval in which channel  
data is not being transmitted  
included in the receive data; and

controlling the target SIR upon comparing the measured error rate of the pilot and target error rate of the pilot in the interval in which channel data is not being  
transmitted  
included in the receive data.

2. (original) The method according to claim 1, wherein the error rate of a synchronous word contained in a pilot is adopted as the error rate of the pilot.

3. (original) The method according to claim 1, further comprising a step of determining whether an interval is an interval in which data is being transmitted based upon results obtained by decoding demodulated TFCI information.

4. (original) The method according to claim 1, further comprising a step of determining whether an interval is an interval in which data is being transmitted based upon TFCI information that has been demodulated by a modem.

5. (previously presented) The method according to claim 1, further comprising a step of setting the target error rate of the pilot in such a manner that the transmitting and receiving sides will not become desynchronized when the target SIR has been lowered upon comparing the measured error rate of the pilot and the target error rate of the pilot.

6. (original) The method according to claim 5, further comprising a step of providing upper and lower limits of the target error rate of the pilot and controlling the target SIR in such a manner that the measured error rate of the pilot will fall within a range defined by said upper and lower limits.

7. (original) The method according to claim 1, further comprising a step of storing target SIR in control before a changeover is made from the control in the interval in which data is being transmitted to the control in the interval in which data is not being transmitted.

8. (original) The method according to claim 7, further comprising a step of storing target SIR prevailing when the measured error rate of the pilot has attained the target error rate, after the changeover is made to the control in the interval in which data is not being transmitted.

9. (original) The method according to claim 7, further comprising a step of storing the difference between target SIR prevailing when the measured error rate of the pilot has

attained the target error rate and the stored target SIR, after the changeover is made to the control in the interval in which data is not being transmitted.

10. (original) The method according to claim 7, further comprising a step of setting the stored SIR as target SIR when a changeover is made from the control in the interval in which data is not being transmitted to the control in the interval in which data is being transmitted.

11. (original) The method according to claim 8, wherein when the change is made from the control in the interval in which data is not being transmitted to the control in the interval in which data is being transmitted, a value obtained by adding the absolute value of the difference between the two stored target SIRs or the absolute value of the stored difference to the target SIR that prevailed prior to the changeover of control is set as the target SIR.

12. (previously presented) A control method that controls a transmitter so as to make a measured reception quality approach a target quality, wherein if a data signal is not contained in a prescribed receive interval and a pilot signal is contained in said interval based upon format information of a received receive signal, the target quality is controlled based upon the pilot signal, and if a data signal is contained in the prescribed receive interval, the target quality is controlled based upon the data signal.

13. (currently amended) A transmission power control apparatus that compares error rate of receive data and target error rate on a receiving side, controls target SIR, and causes a

transmitting side to control transmission power in such a manner that measured SIR will

agree with the target SIR, comprising:

a modem for demodulating a receive signal;

a data existence determination unit for determining whether an interval is an interval in which data is being transmittedchannel data is included in the receive data;

a decoder for decoding the receive data;

a first target-SIR controller for comparing the error rate of receive data after decoding and the target error rate of the data and controlling the target SIR by the result of the comparison in anthe interval in which data is being transmittedchannel data is included in the receive data; and

a second target-SIR controller for measuring the error rate of a receive pilot, which has been demodulated by said modem, comparing the measured error rate of the pilot and target error rate of the pilot and controlling the target SIR in an interval in which data is not being transmittedchannel data is not included in the receive data.

14. (original) The apparatus according to claim 13, wherein said second target-SIR controller adopts the error rate of a synchronous word contained in a pilot as the error rate of the pilot.

15. (original) The apparatus according to claim 13, wherein said data existence determination unit determines whether an interval is an interval in which data is being transmitted based upon results obtained by decoding demodulated TFCI information.

16. (original) The apparatus according to claim 13, wherein said data existence determination unit determines whether an interval is an interval in which data is being transmitted based upon TFCI information that has been demodulated by said modem.
17. (previously presented) The apparatus according to claim 13, wherein said second target-SIR controller sets the target error rate of the pilot in such a manner that the transmitting and receiving sides will not become desynchronized when said second target-SIR controller has lowered the target SIR upon comparing the measured error rate of the pilot and target error rate of the pilot.
18. (original) The apparatus according to claim 13, wherein said second target-SIR controller provides upper and lower limits of the target error rate of the pilot and controls the target SIR in such a manner that the measured error rate of the pilot will fall within a range defined by said upper and lower limits.
19. (original) The apparatus according to claim 13, further comprising storage means for storing target SIR that prevails before a changeover is made from the control in the interval in which data is being transmitted to the control in the interval in which data is not being transmitted.
20. (original) The apparatus according to claim 13, further comprising storage means for storing target SIR prevailing when the measured error rate of the pilot has attained the target error rate, after the changeover is made to the control in the interval in which data is not being transmitted.

21. (original) The apparatus according to claim 19, wherein the difference between target SIR prevailing when the measured error rate of the pilot has attained the target error rate and the stored target SIR is stored after the changeover is made to the control in the interval in which data is not being transmitted.

22. (original) The apparatus according to claim 19, wherein said second target-SIR controller sets the stored SIR as target SIR when a changeover is made from the control in the interval in which data is not being transmitted to the control in the interval in which data is being transmitted.

23. (original) The apparatus according to claim 20, wherein when the change is made from the control in the interval in which data is not being transmitted to the control in the interval in which data is being transmitted, said second target-SIR controller sets, as the target SIR, a value obtained by adding the absolute value of the difference between the two stored target SIRs or the absolute value of the stored difference to the target SIR that prevailed prior to the changeover of control.

24. (original) A receiving apparatus for controlling a transmitter so as to make a measured reception quality approach a target quality, comprising:  
an extraction unit for extracting format information of a received receive signal; and  
a controller for controlling the target quality based upon a pilot signal if a data signal is not contained in a prescribed receive interval and the pilot signal is contained in said interval based upon format information of a received receive signal, and controlling the target quality based upon a data signal if the data signal is contained in the prescribed receive interval.

25. (currently amended) A radio communication apparatus operable-configured to receive a data channel and a control channel, comprising:

a unit operable-configured to switch transmission power control between a first transmission power control on a basis of quality measured for the data channel and a second transmission power control on a basis of quality measured for the control channel.

26. (previously presented) The radio communication apparatus of claim 25, wherein the first transmission power control and the second transmission power control is to control a target receiving quality compared with a measured reception quality.

27. (previously presented) The radio communication apparatus of claim 25, wherein the unit performs the switching based on a signal which indicates a structure of receiving a radio frame.

28. (previously presented) The radio communication apparatus of claim 25, wherein the second transmission power control is performed based on a known signal transmitted via the control channel.

29. (previously presented) The radio communication apparatus of the claim 25, wherein the first transmission power control is performed based on error condition of the data channel and the second transmission power control is performed based on error condition of the control channel.